

ABSTRACT OF THE DISCLOSURE

An armature is constructed by installing a lower layer coil and an upper layer coil in double layers in each slot provided on an armature core. A straight portion of the upper layer coil installed in the slot includes coil end portions at both side ends, which protrude from both axial end surfaces of the armature core in an axial direction. A liquid resin is filled in an inner groove defined among adjacent coil end portions in a peripheral direction, the axial end surface of the armature core and an outer insulating plate. Also, a cylindrical body (non-magnetic material) is mounted on an outer periphery of the coil end portions. Accordingly, brush powder is restricted from entering the inner groove, and a creeping distance for insulation between the armature core, the lower layer coil, and the upper layer coil can be secured.